

## CPG-PACKAGED LIPOSOMES

### ABSTRACT OF THE DISCLOSURE

Liposomes are known to enhance the activity of K- (B-) type CpGs which trigger the production of IL-12. In the present invention, the surprising finding was made that  
5 liposomes also enhance the activity of D- (A-) type CpGs, leading to the production of IFN $\alpha$  in vivo. These findings are relevant for the humans situation, since IFN $\alpha$  rather than IL-12 is the key cytokine for the induction of Th1 responses and anti-viral protection in humans.